

## BREATHABLE COMPRESSED AIR

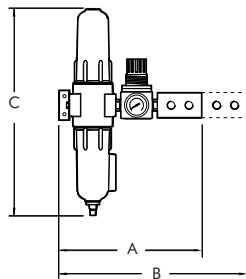


Due to the increasing demand for improved environmental and safety control, Betasolutions have compiled from our standard filter products a comprehensive range of wall and floor mounted Breathable Air products to suit 2 and 4 man breathing air installations. Carefully researched and tested to ensure high levels of performance and integrity, these breathable air filter products can be installed where pure compressed air is required. The filter packages offer filtration and oil removal

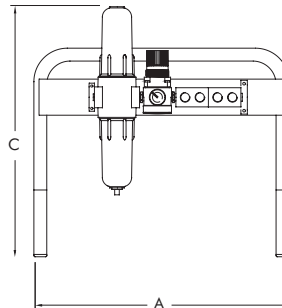
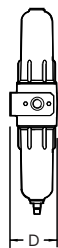
efficiencies down to 0.01 micron and maximum oil removal to 0.003 mg/m<sup>3</sup> (0.003 ppm.) offering the operator clean, particle and liquid oil free air with the added benefit of taste and odour removal for improved user comfort and performance.

## These products do not remove CO and CO<sub>2</sub>

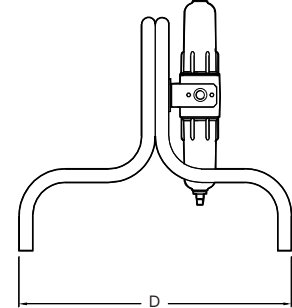
MODEL	PIPE SIZE	FLOW RATE			ELEMENT MODEL	NUMBER OF OUTLETS	DIMENSIONS mm				WEIGHT		DIMENSIONS inch				MODEL
		L/min	SCFM	Nm <sup>3</sup> /h			A	B	C	D	Kg	lb	A	B	C	D	
BA20W	1/4	425	15	25	E361 XA/E381 AC	2	260	320	323	77	0.9	2	10 1/4	12 3/4	12 3/4	3	BA20W
BA20WH	1/4	425	15	25	E361 XA/E381 AC	2	398	458	337	100	0.9	2	15 3/4	18	13 1/4	4	BA20WH
BA20F	1/4	425	15	25	E361 XA/E381 AC	2	500	N/A	450	500	0.9	2	19 3/4	N/A	17 3/4	19 3/4	BA20F
BA20FH	1/4	425	15	25	E361 XA/E381 AC	2	500	N/A	450	500	0.9	2	19 3/4	N/A	17 3/4	19 3/4	BA20FH
BA30W	3/8	850	30	50	E371 XA/E381 AC	4	260	320	323	77	0.95	2.1	10 1/4	12 3/4	12 3/4	3	BA30W
BA30WH	3/8	850	30	50	E371 XA/E381 AC	4	398	458	337	100	0.95	2.1	15 3/4	18	13 1/4	4	BA30WH
BA30F	3/8	850	30	50	E371 XA/E381 AC	4	500	N/A	450	500	0.95	2.1	19 3/4	N/A	17 3/4	19 3/4	BA30F
BA30FH	3/8	850	30	50	E371 XA/E381 AC	4	500	N/A	450	500	0.95	2.1	19 3/4	N/A	17 3/4	19 3/4	BA30FH
BAF1	Stand alone frame assembly suitable for Rp 1/4 to Rp 3/8 filter assemblies															BAF1	
WKN40178	Air pressure regulator and pressure gauge															WKN40178	
LPA1	Audible alarm for low inlet air pressure condition															LPA1	
WKN40180	Manifold two port version															WKN40180	
WKN40179	Manifold four port version															WKN40179	



BA20W & BA30W



BA20F & BA30F



SPECIFICATION	BREATHING AIR	
Particle removal	0.01 micron	
Maximum oil carryover at 20°C (68°F)	0.003 mg/m <sup>3</sup>	0.003 ppm
Maximum recommended temperature	25°C	77°C
XA element replacement	1 year	
AC element replacement	6 months	
Maximum working pressure	10 barg	145 psig

**Warning:** Breathing air systems are designed to offer the user protection in potentially harmful environments, as such it is imperative that these products are correctly installed and properly controlled by a competent person. Proper control means the equipment installed should be fully checked prior to every use, should any fault be discovered it must be repaired or the failed component replaced to guarantee full working order before use.

## NOTES

- Breathable air filters are manufactured from aluminium.
- Threaded connections are BSP parallel to ISO7/1 or NPT to ANSI B2.1 if supplied within North America.
- Filter element end caps are colour coded, blue for XA, black for AC. Direction of air flow, inside to out, through XA grade filter element., out to in through AC activated carbon filter elements.
- Activated carbon filter elements must not operate in oil saturated conditions and will not remove certain types of gases including carbon monoxide and carbon dioxide.
- Betasolutions recommend that a water separator and a 1 micron particulate removal filter are installed prior to breathable compressed air filter products, see water separator and threaded filter leaflets for full specification.
- These filter packages typically provide air quality to a higher standard than that required in BS4275:1997, but will not remove certain types of gases including Carbon Monoxide (CO) and Carbon Dioxide (CO<sub>2</sub>).
- Duplex filters offer 2 stage filtration within one filter unit. Each filtration package provides the combined efficiency of an XA and AC grade filter.
- Model AD16 float operated automatic drain valves are fitted as standard.
- Self relieving air pressure regulators are used with 0 to 16 barg (0 to 232 psig) pressure gauges and can control the outlet air pressure between 2 and 16 barg (29 and 232 psig)
- Wall mounted version is supplied complete with mounting brackets.
- Manifold outlet connections are 3/8", supplied complete with blanking plugs for total flexibility.
- Duplex range and regulator are manufactured from aluminium. Frame and mounting brackets are manufactured from carbon steel. Mounting brackets are zinc plated for extra protection.
- All filter bodies feature the E-Coat and are coated with blue polyester powder paint finish to eliminate corrosion, frames are coated with blue polyester powder paint
- Breathable air filters and filter elements are suitable for use with mineral and synthetic oils plus oil free compressed air applications.
- Breathable air filters and filter elements are silicone free.